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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

30-015-31656

Form C-122

Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CH OPERATING, INC.				Lease or Unit Name ASPEN FED. COM.			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/15/01		Well No. 1	
Completion Date 9/11/01		Total Depth 11235		Plug Back TD 10976		Elevation 10794	
Csg. Size 5 1/2		Wt. 20#		Set At 11027		Perforations: From: 10730 To: 10794	
Tbg. Size 2 7/8		Wt. 6.4		Set At 10654		Perforations: From: 10730 To: 10794	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10654		Formation MORROW	
Producing Thru Tbg. Size		Reservoir Temp. °F 180.5 @ 10654		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2	
Connection PIPE LINE							
L 10654	H 10654	Gg 0.686	%CO ₂ 2.594	%N ₂ 1.754	%H ₂ S N/A	Prover N/A	Meter Run 4"
Taps FLG							
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
Sl							
1						2850	PKR
2						2225	"
3						1950	"
4						1830	"
5						1700	"
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd
1							397
2							675
3	GAS	MEASURED		BY	TOTAL	FLOW	920
4				METER			1161
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 2.227 Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons 58.2 Deg.		
2					Specific Gravity Separator Gas 0.686 XXXXXXXX		
3	N/A	N/A	N/A	N/A	Specific Gravity Flowing Fluid XXXXXX Gmix = 1.640		
4					Critical Pressure N/A P.S.I.A. 640 P.S.I.A.		
5					Critical Temperature N/A R. 534 R		
P _c 2863.2		P _w 8197.9					
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.566$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.566$		
1		2239	5013	3184.9			
2		1965.6	3863.6	4334.3			
3		1847.8	3414.5	4783.4			
4		1720.9	2961.6	5236.3			
5							
Absolute Open Flow 1,818				Mcf/d @ 15.025		Angle of Slope (°): 45	
Slope n: 1							
Remarks: WELL PRODUCED 59 BBLs 58.2 API CONDENSATE * CORRECTED TO 2.594 % CO2 & 1.754 % N2							
Approved By Division:		Conducted By: SIGNAL WIRE LINE		Calculated By: BM		Checked By: BM	